International Elastomer Conference

International Rubber & Advanced Materials In Healthcare Expo, 192nd Technical Meeting, Educational Symposium, 4th Advanced Materials In Healthcare Conference & International Rubber Conference

Show Guide

October 9 - 12, 2017
Huntington Convention Center of Cleveland • Cleveland, OH USA

Download Our Conference App!
Manage your schedule, view the exhibitor list and expo floor plan, connect with other attendees and more. Use our app to be entered to win $100!

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Rubber Division, American Chemical Society

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#RubberIEC

Brought to you by:

International Rubber & Advanced Materials In Healthcare Expo
RUBBER REIMAGINED

We reimagine rubber’s possibilities every day. For longer-lasting belts and treads. Tighter seals and stronger hoses. Better-performing infrastructure components and tougher oil field equipment. Every compound is custom-formulated, A2LA-tested onsite, and expedited from start to delivery as if your business is our top priority. Which it is.

Visit us at Booth #334

AIRBOSSRUBBERCOMPOUNDING.COM

AUTOMOTIVE • TIRE & TRACK • BUILDING & CONSTRUCTION • ENERGY & OIL • MINING • AEROSPACE • WATER TREATMENT... AND WHEREVER ELSE RUBBER WORKS.

AIRBOSS OF AMERICA CORP.
Welcome to Cleveland and the 2017 International Elastomer Conference! This promises to be an exciting week as Rubber Division, ACS will feature the International Rubber & Advanced Materials In Healthcare Expo, 192nd Technical Meeting, Educational Symposium and 4th Advanced Materials In Healthcare Conference. In addition, we will also be hosting the International Rubber Conference Organization, an association of rubber societies from around the world.

The conference kicks off at 9:00 a.m. Tuesday morning with our keynote speaker, Paul Boulier, Vice President, Industry and Innovation with TeamNEO. The title of his address will be “Opportunities and Challenges in Sustaining our Competitive EDGE in Elastomers - a mature market in hyper-changing world.”

Following the address, join us for our expo ribbon cutting ceremony. When we open the expo floor, you’ll find over 270 exhibitors. Our Program Planning Committee has put together an excellent Technical Program that begins in the afternoon.

I encourage you to sit in on the 14th Annual Student Colloquium and Poster Session this week and listen to the students present and describe their work. This is the largest group of students participating we’ve had in a long time. Please stop by and encourage the future members of the rubber industry.

We have several other events of interest for our members and visitors. Further your knowledge at our Educational Symposium, network at the Welcome Reception Tuesday night and enjoy the International Rubber Dinner as we welcome the IRCO delegates, as well as the IEC attendees. At this dinner, the IRCO Medal will be presented to our own John Long – JM Rubber Consultants, LLC & Rubber Division, ACS Councillor. For those that need make up for indulging at the receptions and dinners, there is our 5K Walk/Run Wednesday morning.

For those new to the rubber industry (or just looking for an opportunity), visit the Career Fair Thursday afternoon.

If you get a chance, be sure to visit and enjoy the sights in Cleveland: The Rock & Roll Hall of Fame, The Great Lakes Science Center, Playhouse Square, and if you’re feeling lucky, the Jack Cleveland Casino.

Finally, I’d like to extend thanks to the Rubber Division, ACS staff, our sponsors, exhibitors and our members for making this a successful event. Remember, Rubber Division, ACS is dedicated to enhancing the science, technology and education of individuals in the elastomeric community. If you’d like to help out or just need more information about Rubber Division, ACS or any component of the International Elastomer Conference, feel free to ask one of the Rubber Division, ACS staff, the officers or visit our website at rubber.org.

I hope you have a wonderful week here with us!
Thank you to our valued Platinum, Ph.D., Gold, Silver & Bachelors sponsors and our exclusive IEC sponsors!

Stop by their booths to learn more about these great companies.
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<td>8:00 a.m. - 9:00 a.m.</td>
<td>Steering Committee Breakfast*</td>
<td>Hilton Cleveland Downtown</td>
<td>The Burnham</td>
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<td>8:30 a.m. - 5:45 p.m.</td>
<td>Advanced Materials In Healthcare Conference</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>Membership Committee Meeting</td>
<td>Hilton Cleveland Downtown</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
<td>Student Affairs Committee Meeting</td>
<td>Hilton Cleveland Downtown</td>
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<td>1:00 p.m. - 3:00 p.m.</td>
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<td>Program Planning Committee Meeting</td>
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<td>2:30 p.m. - 4:00 p.m.</td>
<td>Education &amp; Publications Committee Meeting</td>
<td>Hilton Cleveland Downtown</td>
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<td>3:00 p.m. - 4:30 p.m.</td>
<td>Area Directors Meeting*</td>
<td>Hilton Cleveland Downtown</td>
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<tr>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>Best Paper Committee Meeting</td>
<td>Hilton Cleveland Downtown</td>
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<td>7:30 a.m. - 5:30 p.m.</td>
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<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Course: Essentials of Rubber Technology</td>
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<td>8:00 a.m. - 12:30 p.m.</td>
<td>Course: Material Considerations for Medical Devices and Pharmaceutical Products</td>
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<td>9:00 a.m. - 10:00 a.m.</td>
<td>Keynote Speaker Address: Paul Boulier, Vice President, Industry and Innovation with TeamNEO</td>
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<td>Grand Ballroom C</td>
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<td>9:30 a.m. - 1:30 p.m.</td>
<td>Experience Elastomers: A Day of STEM-Based Rubber Inquiries*</td>
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<tr>
<td>10:00 a.m. - 10:15 a.m.</td>
<td>Expo Opening Ceremony &amp; Ribbon Cutting</td>
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<td>10:15 a.m. - 5:00 p.m.</td>
<td>International Rubber &amp; Advanced Materials In Healthcare Expo</td>
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<td>10:30 a.m. - 12:30 p.m.</td>
<td>Southern Rubber Group Meeting</td>
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<td>12:30 p.m. - 5:15 p.m.</td>
<td>Technical Sessions - Sponsored by Lianda</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
<td>Service Awards Committee Meeting</td>
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<td>1:00 p.m. - 5:00 p.m.</td>
<td>Course: Chemistry and Technology of Polymeric Materials Used in Medical Devices</td>
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<td>Course: Silicone Rubber Chemistry and Technology</td>
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<td>3:00 p.m. - 4:00 p.m.</td>
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<td>3:00 p.m. - 5:00 p.m.</td>
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<td>5:00 p.m. - 7:00 p.m.</td>
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<td>7:00 p.m. - 9:00 p.m.</td>
<td>International Rubber Dinner</td>
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<td>6:30 a.m.</td>
<td>Check-in 5K Walk/Run – Presented by: H.M. Royal, Inc.</td>
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<td>7:30 a.m. - 5:30 p.m.</td>
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<td>8:00 a.m. - 9:30 a.m.</td>
<td>Advisory Committee on Testing Procedures Meeting</td>
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<td>Course: Compound Mixing and Consistency</td>
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<td>8:00 a.m. - 5:15 p.m.</td>
<td>Technical Sessions - Sponsored by Lianda</td>
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<td>8:00 a.m. - 4:15 p.m.</td>
<td>14th Annual Student Colloquium</td>
<td>Convention Center</td>
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<td>8:30 a.m. - 4:30 p.m.</td>
<td>Course: Chemistry &amp; Technology of Polyurethane Elastomers</td>
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<td>9:00 a.m. - 12:00 a.m.</td>
<td>IRC Meeting*</td>
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<td>Finance &amp; Budget Committee Meeting*</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
<td>Subdivision Advisory Committee Meeting</td>
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<td>10:00 a.m. - 5:00 p.m.</td>
<td>International Rubber &amp; Advanced Materials In Healthcare Expo</td>
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<tr>
<td>10:00 a.m. - 5:00 p.m.</td>
<td>14th Annual Student Poster Session</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>25-Year Club Reception &amp; Luncheon</td>
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<td>12:00 p.m. - 2:00 p.m.</td>
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<td>Bourbon Trail Elastomer Group Meeting</td>
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<td>1:00 p.m. - 3:00 p.m.</td>
<td>S&amp;T Awards Committee Meeting*</td>
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<td>1:00 p.m. - 5:00 p.m.</td>
<td>Course: Establishing a Rubber Molding Process</td>
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<td>3:00 p.m. - 4:30 p.m.</td>
<td>Area Directors Caucus*</td>
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<td>7:30 a.m. - 3:00 p.m.</td>
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<td>8:00 a.m. - 3:45 a.m.</td>
<td>14th Annual Student Colloquium</td>
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<td>8:00 a.m. - 3:00 p.m.</td>
<td>Technical Sessions - Sponsored by Lianda</td>
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<td>8:30 a.m. - 12:30 p.m.</td>
<td>Course: Failure Analysis of Rubber &amp; Plastics by Physical and Chemical Analysis</td>
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<tr>
<td>8:30 a.m. - 12:30 p.m.</td>
<td>Course: Chemical Structures and Viscoelasticity of Rubber</td>
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<td>10:00 a.m. - 3:00 p.m.</td>
<td>Career Fair</td>
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<td>2:00 p.m. - 3:00 p.m.</td>
<td>Business &amp; Awards Meeting</td>
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Rubber Division, ACS (American Chemical Society) is an organization committed to enhancing science, technology and business across the evolving elastomeric community. We work to expand the elastomeric profession and individual development through educational, technical and interactive activities.

Conferences & Expos
Our highly respected expos, technical meetings and educational symposiums attract professionals across all areas of the rubber, elastomeric and advanced materials in health care industries.

Education
When it comes to elastomers education, we’re your best resource. We offer instructor led and e-Learning training covering materials supply to end-use production in rubber, plastics, polymers and other advanced materials. From basic to advanced rubber technology to hot industry topics, we cover it all.

Publications
Stay informed about the latest rubber industry issues, trends and events through a subscription to Rubber Chemistry and Technology, the leading industry journal on rubber science and technology research. Articles date back to 1928. We also offer more than 110 technical and business books.

Library Services
Our librarian can help answer your questions regarding the science and business of rubber. Our librarian conducts searches and provides access to the latest scientific information and scholarly research, as well as industry statistics and market information.

Membership
Joining Rubber Division, ACS is an investment that pays big dividends through exclusive members-only savings and benefits, including free online access to the Rubber Chemistry and Technology journal and significant discounts on our technical meetings, expos, educational components and library services.

Corporate memberships now available!

Stay Social!
Follow us on Twitter:
@RubberDivision

Join our LinkedIn Group: Rubber Division, American Chemical Society

VISIT RUBBER.ORG FOR MORE INFORMATION.
**Expo Theater Schedule**

The Expo Theater is located in the Rubber Division, ACS Booth #1750.

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| **Tuesday**<br>10.10.2017 | 11:30 a.m. – 12:00 p.m. | TA Instruments Presentation  
*Mechanical Characterization for Elastomers*  
TA Instruments has a comprehensive set of instruments for characterizing elastomeric materials. A broad overview of measurement techniques will be introduced with a deeper-dive into Dynamic Mechanical Analysis. TA’s DMA product line has recently expanded to enable a wider range of materials and components. Numerous examples will be highlighted to convey the power, flexibility and usefulness of DMA techniques. |
| 1:00 p.m. – 1:30 p.m. | Polymer Solutions Group Presentation  
*Getting to Know PSG*  
Focused on specialty polymers and polymer processing, PSG is committed to assembling the industry’s best talent, delivering the most innovative technologies, and solving its customer’s toughest challenges. Founded on the entrepreneurial spirit of established market leaders (Flow Polymers, SASCO Chemical, Peach State Labs, and Alkon Solutions), PSG will expand its global footprint by focusing on customer service, employee safety and process excellence to develop and deliver superior innovative products. Join this presentation to learn more about PSG and how partnering with their team of experts can help improve your processing, protect your properties, and enhance your performance. |
| 2:30 p.m. – 3:00 p.m. | Lord Corporation Presentation  
*Introducing New In Mold Bond Technology*  
LORD Corporation invented a new Chemlok® derivative, known as In Mold Bond (IMB™), which bonds plastic-to-metal during the injection molding process. This new technology promises to reinvent the way automotive engineers design multi-material solutions: creating plastic-to-metal hybrid parts in a matter of seconds with robust covalent bonds. Since its introduction in mid-2016, LORD has commercialized IMB across a number of plastic-to-metal parts and will highlight the application capabilities of its chemistry during this overview. |
| 4:00 p.m. – 4:30 p.m. | Preferred Compounding Presentation  
*The Best of Both Worlds*  
If you need technical horsepower, experienced manufacturing, extensive capabilities, and expertise in the gamut of rubber polymers, Preferred Compounding is your solution. As the second largest custom mixer in North America, we bring customers the size to meet demand and solve problems with the small company feel to ensure intimacy, communication and execution. Call Preferred Compounding and start feeling like a customer again. |
| **Wednesday**<br>10.11.2017 | 9:00 a.m. – 10:00 a.m. | Exhibitor Meeting |
| 11:30 a.m. – 12:00 p.m. | Alpha Technologies Presentation  
*Empowering Industry Partners with Best in Class Solutions*  
Join North American Sales Team Leader (and 2015 Rubber Division Chair) Terry DeLapa as she guides the audience through Alpha Technologies’ approach to testing and innovation. Topics included in the presentation are: the link between industry testing solutions and Alpha’s advanced products and services; a brief history; and an explanation of the three fundamental pillars of Alpha’s business. This presentation will be followed by a question and answer session with a panel of Alpha professionals. |
| 1:00 p.m. – 1:30 p.m. | Lianda Corporation Presentation  
*More Than A Distributor*  
Since 1995, Lianda has been a leading source of high performance polymers and specialty chemicals for the rubber and plastics industries. Their portfolio of performance polymers includes CPE, FKM, HNBR, CSM, CR and EPDM. With over 120 years of combined technical and manufacturing experience and expertise, their TS&D team, along with a fully equipped laboratory, enables Lianda to specifically collaborate and confidentially support their customers to meet their most critical needs. Join them at this presentation to find out more about Lianda and how they can serve your needs. |
| 2:30 p.m. – 3:00 p.m. | Hexpol Compounding Presentation  
*Investing in the Elastomer Compounding Industry*  
Re-invigorating the market with fresh and new ideas requires investing time in finding and cultivating new talent. HEXPOL has always been committed to investing in their people, not only their current associates, but students from universities and technical schools looking to make a career in the elastomers compounding industry. In offering positions to new minds through co-operative education programs it can bring new and fresh ideas to an aged market. |
| **Thursday**<br>10.12.2017 | 2:00 p.m. – 3:00 p.m. | Business & Awards Meeting |

*INTERNATIONAL ELASTOMER CONFERENCE*
Welcome Corporate Members!

stops by the Rubber Division, ACS booth to learn about Corporate Membership.
October 9, 2017

Rubber Division, American Chemical Society
411 Wolf Ledges Parkway Suite 201
Akron, OH 44311

Dear International Elastomer Conference Attendees:

On behalf of our great city, I would like to welcome you back to Cleveland for the 2017 International Elastomer Conference being held at the Huntington Convention Center from October 9 – 12, 2017.

Since 2011, significant capital investments have transformed Cleveland – from the addition of the Global Center for Health Innovation and the Cleveland Convention Center to redeveloped riverfront and lakefront areas. I am confident that Cleveland will provide a perfect meeting destination that exceeds your expectations in the quality, affordability and availability of amenities, attractions and overall customer service. As always, our friendly people are ready to welcome you to Cleveland.

If you missed anything on your last visit or this is your first time to Cleveland, we invite you to explore our many attractions. Visit Playhouse Square, our elegantly restored performing arts center that offers everything from quaint concerts to blockbuster Broadway shows. Or, head to University Circle where you’ll find more arts and culture within a square mile than anywhere else in the country.

Cleveland, located on the beautiful shore of Lake Erie, offers nationally recognized culinary experiences and unique group-friendly nightlife options in Downtown’s Gateway District, Historic Warehouse District and the Flats area, as well as neighborhood hotspots in Tremont, Little Italy, Waterloo and Ohio City.

Again, welcome to Cleveland! If you have any questions or concerns during your stay, stop by our Visitors Center located at 334 Euclid Avenue, visit them online at www.thisiscleveland.com, call them at 800.321.1001 or connect with them on Twitter @TheCLE.

Sincerely,

Frank G. Jackson, Mayor
Download and use our conference app and you could win $100!

It’s like a Show Guide in the palm of your hand.

- search exhibitors & sessions by keywords
- create your own schedule
- highlight the booths at the top of your list to visit
- view the floor plan & exhibitor list
- mark what sessions and events you want to attend
- connect with other attendees
- receive communication of any real-time updates on important events

Available in your device’s app store – search Rubber Division ACS or IEC and select app developed by eShow.

Search for Rubber Division ACS or IEC and look for this image in your app store.

App Sponsored By:

Booth # 334
Special Events

KEYNOTE ADDRESS
Tuesday, October 10
9:00 a.m. – 10:00 a.m.
Grand Ballroom C, Ballroom Level

Paul Boulier - Vice President, Industry and Innovation with TeamNEO

Keynote Address: Opportunities and Challenges in Sustaining Our Competitive EDGE in Elastomers (a mature market in a hyper-changing world)

Expo Opening Ceremony & Ribbon Cutting
Tuesday, October 10 - 10:00 a.m. - 10:15 a.m.
Exhibit Hall C Main Entrance, Exhibit Level

Attend the official opening ceremony ribbon cutting for the International Rubber & Advanced Materials In Healthcare Expo. We look forward to welcoming you and having you help us kick off our expo!

Welcome Reception
Tuesday, October 10 - 5:00 p.m. - 7:00 p.m.
Grand Ballroom, Ballroom Level

This event is open to all registered attendees and there is no cost to attend. The reception features hors d’oeuvres and beverages. Get to know other attendees and exhibitors in a fun, relaxed setting.

International Rubber Dinner
Tuesday, October 10 - 7:00 p.m. - 9:00 p.m.
Hilton Cleveland Downtown, Hope Ballroom E, Floor 3

There will be a special dinner held to welcome the IRCO Delegates, as well as all International Elastomer Conference attendees. The IRCO Medal will be presented during the dinner to John Long, JM Long Rubber Consultants, LLC & Rubber Division, ACS Councilor.

*Cost to attend this dinner is $100 per person; Reservations are required.

Expo Theater Presentations
Tuesday, October 10 & Wednesday, October 11
Expo Theater/Rubber Division, ACS Booth #1750, Expo Floor

Learn about what some of the best companies in our industry have to offer as they share their knowledge with you. These half hour presentations take place in the Expo Theater during expo hours. There is no additional cost to attend these presentations.

5K Walk/Run
Wednesday, October 11 - 6:30 a.m.
Meet in Cleveland Hilton Downtown Lobby

Runners, walkers and guests are invited to participate. Registration is requested for planning purposes, however, there is no cost to participate.

14th Annual Student Colloquium & Poster Session
Colloquium: Wednesday, October 11 - 8:00 a.m. - 4:15 p.m.
Thursday, October 12 - 8:00 a.m.-3:45 p.m.
Room 26B, Ballroom Level

Poster: Wednesday, October 11 - 10:00 a.m. - 5:00 p.m.
Hall C, Exhibit Level

The 14th Annual Student Colloquium on Wednesday and Thursday will include a Keynote Speaker presentation, followed by oral presentations by graduate and undergraduate students. Concurrent with the student presentations is the Poster Session on Wednesday, located on the expo floor. Registered Technical Meeting attendees can attend the Student Colloquium presentations at no additional cost. The Poster Session is open to all conference registered attendees.

25-Year Club Reception & Luncheon
Wednesday, October 11 - 11:30 a.m. - 1:00 p.m.
Room 6, Concourse Level

Celebrate individuals who have been active in the rubber industry for 25 or more consecutive years. All are invited to attend.

*Cost is $60 per person. Reservations are required.

Career Fair
Thursday, October 12 - 10:00 a.m. - 3:00 p.m.
Hall C, Exhibit Level

Looking for a new opportunity in our great industry? Meet with representatives from several respected companies about career and professional opportunities. There is no cost to attend and everyone is welcome. Is your company looking for the perfect candidate? Participation cost is $100 and includes a draped table, two chairs and one expo registration for your company representative overseeing your Career Fair space. Contact lmcclure@rubber.org to secure your space today!

Business & Awards Meeting
Thursday, October 12 - 2:00 p.m. - 3:00 p.m.
Expo Theater/Rubber Division, ACS Booth #1750, Expo Floor

Join us at the semi-annual Business & Awards Meeting of Rubber Division, ACS. It includes general business of the Division, plus the announcement of the winners for the Student Colloquium, Service Awards and more.
Exhibitor List

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Gabriela.fattugiu@elkem.com
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www.endurica.com
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Based in River Falls, Wisconsin, NELA-USA is a wholly owned subsidiary of NELA Bröder Neumeister GmbH, located in Lahr/Black Forest, Germany. With 75 years of experience in high-precision equipment manufacturing, originally as a supplier for the Graphic Arts industry, our family owned company is a leading supplier of vision inspection systems for the rubber and rubber compound, and sintered metal industries. NELA has its own in-house industrial imaging processing software development department to accommodate customer specific applications. With a high degree of vertical integration in manufacturing, NELA assures that your inspection requirements will be fulfilled—today and in the future.

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www.actmix.cn
qianronglian@139.com
Ningbo Actmix located in Jiangbei Investment Center of Ningbo, the leading manufacturer of Polymer-bound pre-dispersed rubber chemicals in China mainland. Has passed the ISO/TS16949 & ISO14001 2004 certified. As one of the professional manufacturers of Polymer-bound rubber chemicals , we formed the high activity, high dispersibility & mixing efficiency of pre-dispersed rubber chemicals range, includes rubber Accelerator, vulcanizing agent, scorching retarders, antioxidants etc. Recently years Actmix developed some of the environmental friendly chemicals, such as ZDTP-50, ZBPD-50, Retarder E-80, CLD-80, ACT-case and more. The company provides a wealth of product solutions that contribute to its customers’ competitiveness and productivity in multiple industries such as Construction, Coatings, Inks, Paper, Polymers, Packaging, Food, Personal & Home Care, Pharmaceuticals, Agriculture, Forestry, Water and Energy.

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613-925-2323
www.en.omskcarbongroup.com
kriil.katsay@omskcarbon.com
Sales office and logistics center Omsk Carbon Canada Limited is the representative office of international carbon black manufacturer Omsk Carbon Group in North America. Omsk Carbon Canada Limited offers wide range of carbon black from ASTM to specialty grades in accordance with customer's requirements, high delivery, delivery of products in a short time allows us to provide logistics for North American consumers exactly in time.

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ReXroth Bosch Group. 1438 5150 Prairie Stone Pkwy Hoffman Estates, IL 60192 847-645-3612 www.boschrexroth-us.com jp.lanz@boschrexroth-us.com Royal Adhesives & Sealants. 223 2001 W. Washington Street South Bend, IN 46628 800-249-4010 www.royaladhesives.com Thomas.Farrell@rascp.com CILBOND® is a range of high-performance primers and bonding agents designed to bond rubber and polyurethane elastomers during the molding/casting processes to a variety of substrates. CILBOND® one-coat bonding agent technologies exceed the performance of primer/cover coat products regarding dynamic fatigue life and environmental resistance in many applications. One-coat technologies reduce costs and simplify processes without sacrificing the performance requirements. CILBOND® LHAP/LVOC and Water-Based one-coat primer/cover coat technologies meet the compliance and performance requirements for Rubber to Metal Bonding, Polyurethane to Substrate Bonding, Friction Bonding, and Rubber to Fabric Bonding. Contact CILBOND@rascp.com to learn more.

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RSS. 1252 PO Box 189 Germantown, OH 45327 397-855-0585 www.rsharmor.com kthomas@rsharmor.com RSS - Rethink, Solve, Sustain; RSS, a wholly owned subsidiary of The Dupps Company, manufactures and markets Harmonite® powders for use in high value added CASE applications like SBR Modified Bitumen membranes, Butyl Hot Melt Pressure Sensitive Adhesives, Cape Seals, and roofing mastics, rubber floor mats, gaskets and conveyor covers.

Rubber & Plastics News. 930 1725 Merriam Road, Suite 300 Akron, OH 44313 330-836-9190 www.rubbernews.com bwheaver@braininc.com Founded in 1971, Rubber & Plastics News is a tabloid newspaper reaching 12,000 rubber product manufacturers and others allied to the rubber industry. It provides news, features, commentary, technical and marketing information in print, and daily on its website: www.rubbernews.com.

Rubber Consultants. 1517 TARRC (MRSI) International House Hertford, SG13 8NL United Kingdom +44 (0)1922 554657 www.rubberconsultants.com dcawthra@tarrc.co.uk Rubber Consultants is the independent consultancy unit of one of the world’s leading polymer and elastomer R&D laboratories, the Tun Abdul Razak Research Centre in the UK. We have been assisting companies since 1984 to improve their businesses by offering worldwide elastomer testing and R&D services. We have established a unique portfolio of in-house services available for the elastomer and polymer industries as well as suppliers to these businesses. We have a global customer base with clients from the tyre, automotive, aerospace, railway, oil & gas, medical & healthcare, pharmaceuti- cal, packaging and the construction sectors.

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Rubber Division, ACS Student Chapters. 1538 411 Wolf Ledges Parkway, Suite 201 Akron, OH 44313 330-955-7602 www.rubber.org/student-chapters crobinson@rubber.org The rubber, elastomer and polymer industry needs you. If you are a high school or college student interested in becoming part of a fascinating profession in chemistry, rubber, elastomer or polymer technology, then the Rubber Division, ACS has a plan for you. The Division has formed a cooperative partnership with industry senior leaders, universities and Rubber Groups to participate in a comprehensive plan to help you from your first year in high school to your first job in the industry.

Rubber World Magazine. 1108 1741 Akron Peninsula Road Akron, OH 44313 330-864-2122 www.rubberworld.com sales@rubberworld.com Sanyu USA, Inc. 1446 1720 Indianwood Circle, Suite A Maumee, OH 43537 419-897-9555 www.sanyu-sti.com mark.beaver@sanyusa.com Sanyu USA represents three leading rubber machinery manufacturers: SANYU (rubber injection molding machines), MORIYAMA (rubber mixers and twin taper extruders) and RUBICON (rubber extruders and vulcanization lines).

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Exhibitor Floor Plan

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**Tuesday, Oct. 10**  
10:00 a.m. – 5:00 p.m.  

**Wednesday, Oct. 11**  
10:00 a.m. – 5:00 p.m.  

**Thursday, Oct. 12**  
10:00 a.m. – 3:00 p.m.

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Opportunities and Challenges in Sustaining Our Competitive EDGE in Elastomers (a mature market in a hyper-changing world)

Paul is responsible for developing and executing direct-to-company business attraction for Northeast Ohio’s core industries, including metal fabrication and machinery; polymers, chemicals and coatings; energy, oil & gas; as well as packaging and transportation. Previously, Paul held senior management roles at A. Schulman, a global thermoplastics compounder serving the packaging, transportation, consumer products, industrial and agricultural markets; Core Molding Technologies, designer/molder of reinforced composite products for the transportation, electronics, industrial, automotive aftermarket and alternative energy markets; Avery Dennison, a manufacturer of high-performance adhesives and consumer products; and Nova Chemicals, a global manufacturer of Styrenics polymers, polyethylene and petrochemicals. Paul earned a master’s degree in Plastics Engineering from UMASS Lowell and a bachelor’s degree in Chemistry from Worcester Polytechnic Institute. He also completed advanced studies in Global Marketing and Business Strategy at the Katz Graduate School at the University of Pittsburgh. Paul actively volunteers and mentors entrepreneurs in business strategy/planning at Mercy Corps International, as well as contributing to venture groups through the Akron (OH) ARCHAngels, WPI Business School (MA), and Fusion Pointe, a Naples (FL) West Coast Venture Group.
Tuesday
October 10

Session A - Room 25 A&B, Ballroom Level

Functionalized Elastomer and Additives
Co-Chairs: Christopher Scilla, Eastman Chemical Company & Lifeng Chen, Cooper Tire & Rubber Company

1:00 p.m. A2 Controlling the Conductive Network Formation of Polymer Nanocomposites Filled with Nanorods Through the Electric Field - Yangyang Gao, Beijing University of Chemical Technology, China

1:30 p.m. A3 Development of Sulphur Cured Chlorobutyl Rubber Compound with Excellent Cure-Reversion Resistance and Low-Compression Set Properties Using a Novel Crosslinking Co-Agent - Shibulal GS, Chonbuk National University, Republic of Korea

2:00 p.m. A4 Reinforcement of Rubber Compounds Utilizing Functionalized & Discrete Multi-Wall Carbon Nanotubes - August Krupp, Molecular Rebar Design

2:30 p.m. Break

2:45 p.m. A5 Studies on Novel Functionalized SSBR and Different Type of Silica – Silane Systems on Model Tire Tread Compounds Properties - Natalia Meissner, Synthos S.A., Poland

3:15 p.m. A6 A Novel Functional Additive for Tailoring the Cure Reversion, Crosslink Density and Set Properties in Polyisoprene and Chlorinated Isobutylene-Isoprene Rubbers - Changwoon Nah, Chonbuk National University, Republic of Korea

3:45 p.m. A7 Development of Polymers Based on 1-Functionalized Benzocyclobutene-based Monomers with Controlled Curing Temperatures - Colleen Pugh, The University of Akron

4:15 p.m. A8 Increasing the Mileage – New functionalized SSBR for Fuel Efficient Tires - Michael Roessle, Trinseo Deutschland GmbH, Germany

Session B - Room 25C, Ballroom Level

Mixing & Processing Technology
Co-Chairs: John Dick, Alpha Technologies & Ken Bates, Struktol Company of America

12:30 p.m. B1 The New Concept of Natural Rubber Quality Check - David Chang, Ektron USA

1:00 p.m. B2 Comparison of States of Mix Using the New ASTM Payne Effect Method Versus the ASTM Dispersion Method - John Dick, Alpha Technologies

1:30 p.m. B3 The Effect of Metal Soaps on Extrusion Rheological Properties of Silica Filled SBR/BR Composites - Kunhao Feng, South China University, China

2:00 p.m. B4 New Development in Processing Additives for the Modern Rubber Industry - K.P. Ho, Performance Additives of Malaysia

2:30 p.m. Break

2:45 p.m. B5 The Role of Coupling Agents in Dual Dispersion of Silica and Carbon Black - Sadhan Jana, The University of Akron

3:15 p.m. B6 Silica Mixing - Richard Jorkasky, Kobelco Stewart Bolling, Inc.

3:45 p.m. B7 New EPDM Molecular Architecture and Its Effect on Processing Characteristics and Compound Properties - Greg (Guangming) Li, Dow Chemical Co.

4:15 p.m. B8 Addition Cure HCR: Impact of Inhibitors on the Elastomer Cure Profile - Charles Olsen, AB Specialty Silicones

Session C - Room 26A, Ballroom Level

New Commercial Developments
Co-Chairs: Chris Napier, ExxonMobil Chemical & Peter Cameron, Sid Richardson Carbon & Energy

12:30 p.m. C1 Troubleshooting & Increasing Profitability in Elastomer Injection Molding - Harshal Bhogesra, Sigma Plastic Services, Inc.

1:00 p.m. C2 New Struktol HT 750 Additive Family for Well-balanced Properties in Diamine Cured Elastomers - Volker Boerger, Schill+Seilacher, Germany

1:30 p.m. C3 New High Performance Water Bourne Bonding System for Rubber to Substrate Bonding Application - Roger Cassell, Dow Chemical

2:00 p.m. C4 New Silica Innovation Combining High Performance and Fuel Efficiency in Tire - Marcus Copperwheat, Solvay Specialty Polymers

2:30 p.m. Break

2:45 p.m. C5 SureMix CO² Performance Process Aid for Highly Loaded Silica Tread Compounds - Vince Cremona, Flow Polymers

3:15 p.m. C6 EkoDyne®, Functional Compound – A Sustainable Material for the Rubber Industry - Glenn Denstaedt, Lehigh Technologies

3:45 p.m. C7 New Markets, Challenging Opportunities - Alonso Ines, Dynasol Group, Spain

4:15 p.m. C8 Performance Hydrocarbon Resins in Tread Formulations – Why Use Resin? - Mark Ingratta, Eastman Chemical Company

4:45 p.m. C9 Incorporating Graphene and Other Fillers for Enhanced Thermal Conductivity of Silicone Elastomers - Percy Chinoy, XG Sciences & Ben Bordoloi, Ames Rubber
Tuesday (continued)

Session A - Room 25 A&B, Ballroom Level
Functionalized Elastomer and Additives
Chair: Avraam Isayev, The University of Akron

12:30 p.m.  A9 The Effect of Plasma Functionalisation of Carbon Nanomaterial Additives on the Mechanical and Physical Properties of Natural Rubber - Matthew Thornton, Haydale Composite Solutions, United Kingdom

1:00 p.m. D2 Rubber Powders Comparison via Compression Molding (Sintering) - Antonin Kuta, University of Chemistry and Technology, Czech Republic

2:00 p.m. D4 Use of Recycled Rubber and its Applications - Howard Boever, EVP TC Rubber, Inc.

2:30 p.m. Break

2:45 p.m. D5 Life-time Recycling Loops for Elastomer Products: State-of-the-Art - Jacques Noordermeer, University of Twente, The Netherlands, Nicaragua

3:15 p.m. D6 A Novel Continuous and Green Technique for the Desulfurization of Waste Tire Rubber Using Multi stage Screw Extruder: From Basic Research to Industrial Application - Ligun Zhang, Beijing University of Chemical Technology, China

Session B - Room 26B, Ballroom Level
4 R’s of Rubber - Reduce, Reuse, Recycle, Renew
Co-Chairs: Christopher Scilla, Eastman Chemical Company & Lifeng Chen, Cooper Tire & Rubber Company

8:00 a.m. A9 The Effect of Plasma Functionalisation of Carbon Nanomaterial Additives on the Mechanical and Physical Properties of Natural Rubber - Matthew Thornton, Haydale Composite Solutions, United Kingdom

8:30 a.m. A10 Reinforcement of Styrene-Butadiene Rubber by Novel Supramolecular Fillers - Xin Tan, The University of Akron

9:00 a.m. A11 Highly Aging Resistant Elastomers Doped with Antioxidant Loaded Clay Nanotubes - Wencai Wang, Beijing University of Chemical Technology, China

9:30 a.m. A12 Design and Preparation of Functionalized Bio-based Elastomer from Itaconic Acid - Runguo Wang, Beijing University of Chemical Technology, China

10:00 a.m. Break

Session B - Room 26B, Ballroom Level
Advances in Materials and Processes for Car and Truck Tires
Co-Chairs: Sy Mowdood (Retired) Pirelli Tyre & Howard Colvin, Cooper Tire & Rubber Company

10:15 a.m. A13 New Developments in Truck Tyres: Performance and Sustainability - Fabio Bacchelli, versalis, Italy

10:45 a.m. A14 Variation of Micro- and Meso-scopic Structure during Fatigue - Shugao Zhao, Qingdao University of Science and Technology, China


11:45 a.m. Break

Wednesday

Session A - Room 25 A&B, Ballroom Level
Functionalized Elastomer and Additives
Co-Chairs: Christopher Scilla, Eastman Chemical Company & Lifeng Chen, Cooper Tire & Rubber Company

8:00 a.m. A9 The Effect of Plasma Functionalisation of Carbon Nanomaterial Additives on the Mechanical and Physical Properties of Natural Rubber - Matthew Thornton, Haydale Composite Solutions, United Kingdom

8:30 a.m. A10 Reinforcement of Styrene-Butadiene Rubber by Novel Supramolecular Fillers - Xin Tan, The University of Akron

9:00 a.m. A11 Highly Aging Resistant Elastomers Doped with Antioxidant Loaded Clay Nanotubes - Wencai Wang, Beijing University of Chemical Technology, China

9:30 a.m. A12 Design and Preparation of Functionalized Bio-based Elastomer from Itaconic Acid - Runguo Wang, Beijing University of Chemical Technology, China

10:00 a.m. Break

Session A - Room 25 A&B, Ballroom Level
Elastomers for Extreme Environments
Chair: Richard Pazur, Department of National Defence, Canada

12:30 p.m. E1 Development of New Generation of Ester Plasticizers for High Temperature Ethylene Acrylic Elastomers - Erica Aderson, The Hallstar Company

1:00 p.m. E2 Aging of Rubbers with Saturated Backbone - Influence of Crosslinking Using Peroxides and Measures - Ulrich Giese Deutsches Institut Fur Kautschuktechnologie, Germany

1:30 p.m. E3 Ultimate Tensile Properties of Rubber Compounds: Effect of Strain Rate and Temperature - Rossana Lervolino, SKF ERC, Nicaragua

2:00 p.m. E4 Temperature Dependence of Radiation Induced Degradation of Chlorosulfonyl Polyethylene and Chloroprene Elastomer - Masayuki Ito, Waseda University, Japan

2:30 p.m. Break

2:45 p.m. E5 Activation Energies of Thermo-oxidized Nitrile Rubber Compounds of Varying Acrylonitrile Content - Richard Pazur, Department of National Defence, Canada

3:15 p.m. E6 In-Mold Bonding of Fluorinated Liquid Silicone Rubber & Thermoplastics and Metals - Rick Ziebell, R.D.Abbott Company, Inc.

3:15 p.m. E7 Characterisation of the Cyclic Fatigue Performance of HNBR for Use in Dynamic Rubber Seals After Ageing in High Temperatures and Organic Solvents - Barnabas Shaw, Queen Mary University of London, United Kingdom

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Session A - Room 25 A&B, Ballroom Level
1:00 p.m. A16 Anisotropic Effects and Master Curves for Rubbers with sp2 Carbon Allotropes: Towards Light Weight Materials - Maurizio Galimberti, Politecnico di Milano, Italy
1:30 p.m. A17 Serinol: A Biosourced Building Block for Better Mechanical Reinforcement and Sustainable Vulcanization of Rubber Compounds - Maurizio Galimberti, Politecnico di Milano, Italy
2:00 p.m. A18 Optimization of the Silica/Polymer Interface in the Case of Very High Surface Silica: New Methods to Support Formulation Adjustments for Passenger Car and Truck Tire Treads - Laurent Guy, Solvay Specialty Polymers, France
2:30 p.m. A19 Breakthrough Single Wall Carbon Nanotube Technology Expands Mechanical and Electrical Properties of Elastomers - Jean-Nicholas Heit, OCSiAL LLC
3:00 p.m. Break
3:15 p.m. A20 Trade-off Between Filler Dispersion and Hysteresis - Sadhan Jana, The University of Akron
3:45 p.m. A21 New Silence Design Technology Application in Low Noise Tread Pattern Development - Tian Jian, Tire Technology Alliance, China
4:15 p.m. A22 Novel Approach to Coupling Functionalized Carbon Black in Non-Functionalized Elastomer Systems - Zachary Combs, Birla Carbon
4:45 p.m. A23 Plasma Modification of Polymeric Single End Cords as an Alternative to RFL Treatment - Wilma Dierkes, University of Twente, The Netherlands, Nicaragua

Session B - Room 25C, Ballroom Level
Contributed Session
1:00 p.m. B15 Advanced IP Strategy: You Don’t Need a Patent if... - Jacob Ward, Ward law Office LLC
1:30 p.m. B16 Living With the New Toxic Substances Control Act - Mark Duvall, Beveridge & Diamond, P.C.
2:00 p.m. B17 General Legal Considerations for Product Development in Polymer & Material Industries - Jiazhong (Jason) Luo, Duane Morris LLP
2:30 p.m. B18 Trump Administration Regulatory Reform Initiatives: A Status Update & Implications for the Rubber Industry - June Luxton, Clark Hill PLC

Session C - Room 26A, Ballroom Level
New Commercial Developments
Co-Chairs: Chris Napier, ExxonMobil Chemical Company & Peter Cameron, Sid Richardson Carbon & Energy
8:00 a.m. C10 Water-borne System for Improved Adhesion of EPDM to PET - Loubna Jebbanema, Total Cray Valley
8:30 a.m. C11 Liquid Farnesene Rubber for Tire Application - Daisuke Koda, Kuraray Co., Ltd., Japan
9:00 a.m. C12 NORDEL™ EPDM by Design – The Next Generation is Here - Colin Li Pi Shan, Dow Chemical
9:30 a.m. C13 Crystex Cure Pro Insoluble Sulfur – The Next Generation of Insoluble Sulfur - Frederick Ignatz-Hoover, Eastman Chemical Company
10:00 a.m. Break
10:15 a.m. C14 New Developments in Curing Bladder Materials Technologies - Exxpro ™ 303S Specialty Elastomers for Bladder Application - Sushil Mandot, ExxonMobil Company India Private Limited, India
10:45 a.m. C15 AEM Compounds – Recent Developments on Fluid Aging - Edward McBride, DuPont
11:15 a.m. C16 New Dynamic Mechanical Analysis (DMA) Technology for Elastomers - Troy Nickel, TA Instruments - Waters Corporation, LLC
11:45 a.m. Break
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**Wednesday (continued)**

**Session C - Room 26A, Ballroom Level**

1:00 p.m.  C17  Luperox® Air-XL™ A New Organic Peroxide for Crosslinking EPDM in Hot Air - **Leonard Palys**, Arkema, Inc.

1:30 p.m.  C18  High Silica Rotors: Unexpected Applications - **Frank Pappas**, Kobelco Stewart Bolling, Inc.

2:00 p.m.  C19  Expeka – Reduced Development Times and Experimental Costs in Rubber Compounding - **Nicolas Perron**, Expeka, United Arab Emirates

2:30 p.m.  C20  Development of TPV Products Based on High Quality EPDM Products with Enhanced Sustainability - **Zhaoyao Qiu**, ARLANXEO

3:00 p.m.  Break

3:15 p.m.  C21  Molecular Modeling for the Design of Novel Functionalised SSBRs for High Performance Tires – **Luis Rodriguez-Guadarrama**, Dynasol Group, Spain

3:45 p.m.  C22  Evaluation of Functionalized Aluminosilicate Microspheres in Elastomer Compounds - **Erick Sharp**, ACE Products & Consulting

4:15 p.m.  C23  New Industrial Launch of EBDM Polymerized by Metallocene Catalyst - **Keisuke Shishido**, Mitsui Chemicals, Inc., Japan

4:45 p.m.  C24  A New High Performance EPDM Polymer with Improved Load Bearing Dynamic Properties - **Solomon Tang**, Lion Elastomers

**Session E - Room 26C, Ballroom Level**

Characterization Tools for Elastomers

Co-Chairs: **Crittenden Ohlemacher**, The University of Akron & **Michael Warner**, CCSI, Inc.

8:00 a.m.  E8  Application Engineering: Adding Value Beyond the Product - **Erin Chludzinski**, Lord Corporation

8:30 a.m.  E9  Mathematical Models to Evaluate Properties of Different SSBRs - **Liu Huaqiao**, Tire Technology Alliance, China

9:00 a.m.  E10  Investigation of Vulcanization Network Evolution Based on Intermolecular and Intra-molecular Technique – **Yang Kun**, Qingdao University of Science and Technology, China

9:30 a.m.  E11  Mechanical Behavior of Carbon Black Filled Rubbers Under Temperature: Experimental Observations and Finite Element Modeling - **Xu Li**, Wuhan University of Technology, China

10:00 a.m.  Break


10:45 a.m.  E13  Characterization of the Aging Process of EPDM Using NMR and Stress Relaxation - **Yuichi Aoyagi**, Freudenberg Technology Innovation SE & Co. KG, Germany

11:15 a.m.  E14  Influence of Network Structure on Elastomer Properties - **Anke Blume**, University of Twente, The Netherlands, Nicaragua

11:45 a.m.  Break

1:00 p.m.  E15  Critical Plane Selection Under Non-relaxing Simple Tension with Strain Crystallization - **Anantharam Ramachandran**, Caterpillar

1:30 p.m.  E16  Nanotheological Properties of Filled Rubber Systems - **Ken Nakajima**, Tokyo Institute of Technology, Japan

2:00 p.m.  E17  Effect of Time History on Crack Growth of Crystallisable and Non-crystallisable Rubbers - **Jean-Louis Poisson**, Tun Abdul Razak Research Centre, United Kingdom

2:30 p.m.  E18  Characterisation of Rubber Polymers and Compounds - **Thomas Rauschmann**, TA Instruments - Waters Corporation, LLC

3:00 p.m.  Break

3:15 p.m.  E19  Ageing Study and Electrical Resistance Based Stress-monitoring of Rubber Seals - **Eshwaran Subramani Bhagavatheswaran**, Technische Universität Dresden, Germany

3:30 p.m.  E20  Characterizing Rubber’s Resistance Against Chip & Cut Behaviour - **William Mars**, Endurica, LLC

4:15 p.m.  E21  Scattering Studies on Payne Effects - **Mikihito Takenaka**, Kyoto University, Japan

4:45 p.m.  E22  Quantitatively Studying the Interphase of Rubber Nanocomposites by a New Mode of AFM - **Ming Tian**, Beijing University of Chemical Technology, China

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**Wednesday (continued)**

192nd Technical Meeting

Cancelled

Cancelled

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INTERNATIONAL ELASTOMER CONFERENCE
Session A - Room 25 A&B, Ballroom Level
Advances in Materials and Processes for Car and Truck Tires
Co-Chairs: Sy Mowdood, (Retired) Pirelli Tyre & Howard Colvin, Cooper Tire & Rubber Company

8:00 a.m. A24 Evaluation of Rubber Process Oils in Winter Tire - Mika Lahtinen, Nynas AB, Sweden
8:30 a.m. A25 Advanced Carbon Blacks to Enhance Tire Performance - Leszek Nikiel, Sid Richardson Carbon & Energy Co.
9:00 a.m. A26 Powder Liquid Dispersions of Plasticizers to Increase Throughput and Meet Sustainability Goals for Tire Tread Formulations - Dan Andjelkovic, The Hallstar Company
9:30 a.m. Break
9:45 a.m. A27 Performance Improvements with SYLVTRAXX™ Tread Enhancement Additives - Influence of the Selection of Polymer and Polymer Blends - Wolfgang Pille-Wolf, Kraton Chemical B.V., Nicaragua
10:15 a.m. A28 Vinyl Cis Rubber (VCR) Superior Polymer for Future Trends - Toempohon Puvanatvattana, UBE Technical Center (Asia) Limited, Thailand
10:45 a.m. A29 Manipulating SSBR Microstructures for Unique Material Properties and Higher Tire Performance - Juin-Meng Yu, TSRC Corporation, Taiwan
11:15 a.m. A30 Enhanced Silica Masterbatch Technology for Thick Articles and Low Oil Applications in Heavy Duty Tires - John Kounavis, Dynasol Group
11:45 a.m. Break

Session A - Room 25 A&B, Ballroom Level
Foam & Adhesives
Chair: Christopher Robertson, Endurica, LLC
1:00 p.m. A31 Adhesion of Millable (Solid Rubber) Polyurethanes to General Purpose Rubber - Tom Jablonowski, TSE Industries Inc.
1:30 p.m. A32 Graphene in Mixed Solvents: A Path Towards Graphene Films, Emulsions and Foams - Andrey Dobrynin, The University of Akron
2:00 p.m. A33 Experimental Study of Adhesion, Friction and Aging for a SBR Rubber Blend, Analyzed Using Multiscale-Contact-Mechanics and a Chemical Kinetics Transition Aging Model - Nestor Rodriguez, Becton Dickinson and Co.
2:30 p.m. A34 Evaluating Octavinyl-Poss as an Adhesion Promoter for Polymeric Textile Cords and Tire Rubber Matrix - Bagdagul Karaagac, Kocaeli University, Turkey
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- Frontiers in Rubber Science
- Contributed
- Rubber Mechanics – Fatigue and Testing
- New Trends in Carbon Materials
- Advances in Synthesis of Elastomers
- Engineering with Rubbers

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Thursday (continued)

October 12

Session B - Room 25C, Ballroom Level
Contributed Session

Co-Chairs: C. Jeffrey Lin, Monolith Materials Inc. & Anna Kepas-Suwara, Rubber Consultants, U.K.
8:00 a.m.  B23 Rubber Chemistry and Technology: Trends, Opportunities, and Getting Published in Your Scientific Journal - William Mars, Endurica, LLC
8:30 a.m.  B34 Predispersed Short Fibers: A Cost Effective Way to Reinforce Rubber Compounds - Joel Neilsen, LANXESS
9:00 a.m.  B25 How Elastomeric Professionals Can Become Invincible to Lawsuits and Save Thousands in Taxes - Larry Oxenham, American Society for Asset Protection
9:30 a.m.  Break
9:45 a.m.  B26 Analysis on Partition Behavior of Hydrocarbon Resins in Tire Compounds of an Immiscible Blend - Xiao-Dong Pan, ExxonMobil Chemical
10:15 a.m. B27 Rationalising EPDM Rubber Compound Data via Master Curves: Not Only Practical but Also Enhanced Understanding - Martin van Duin, AR LANXEO, Nicaragua
10:45 a.m. B28 Determination of PAHs in Tires by GC/MS and NMR - How Well Does the ISO 21461 (NMR) Method Uphold the EU’s Original PAH Standards for the Tires? - Joseph Pan, Southwest Research Institute
11:15 a.m. B29 Benefits of Laser Mold Cleaning - Timothy Graham, Rep Corp
11:45 a.m. Break
1:00 p.m.  B30 Morphology and Nanomechanical Characteristics of NR/SBR Blends - Anna Kepas-Suwara, Rubber Consultants, United Kingdom
1:30 p.m.  B31 A New Constitutive Model for the Nonlinear Viscoelastic Behaviour of Carbon-black Reinforced Rubber in Medium Dynamic Strains and Medium Strain Rates - Francesca Carleo, Queen Mary University of London, United Kingdom
2:00 p.m.  B32 Fatigue Behaviour of Cord-rubber Composites Under a Complex Tension and Bending Loading - Yinping Tao, Queen Mary University of London, United Kingdom
2:30 B33 Insights into Material Composition Effects on the Performance of OE Passenger Car Tires - Steve Teertstra, ARLANXEO

Session C - Room 26A, Ballroom Level
New Commercial Developments

Co-Chairs: Chris Napier, ExxonMobil Chemical Company & Peter Cameron, Sid Richardson Carbon & Energy Co.
8:00 a.m.  C25 Defining EPDM for 50 years - Niels Van Der Aar, ARLANXEO, Canada
8:30 a.m.  C26 Thermoplastic Vulcanizates Based on EPDM Enabled by Advanced Molecular Catalysis (AMC): Formulation, Morphology Formation and Physical Properties - Xiaosong Wu, Dow Chemical

Session E - Room 26C, Ballroom Level
Characterization Tools for Elastomers

Co-Chairs: Crittenden Ohlemacher, The University of Akron & Michael Warner, CCSI, Inc.
8:00 a.m.  E23 Rheology of EPDM Compounds Made of Equal Mooney, Equal Composition Polymers Differentiation Beyond Typical EPDM Parameters - Juan Tuberquia, The Dow Chemical Company
8:30 a.m.  E24 Sealing Force Response Characterization Over a Full Temperature Range and its Relationship to Leakage - Paul Tuckner, Grace Technology & Development
9:00 a.m.  E25 Loss Tangent Mapping in Silica Filled SBR by Nanorheological Atomic Force Microscope - Eijun Ueda, Nippon Zeon, Japan
9:30 a.m.  Break

Tire Testing and Tire Performance Predictions

Chair: Ed Terrill, Akron Rubber Development Laboratory
9:45 a.m.  E26 Factors Influencing Tyre Force and Moment (F & M) Characteristics - Rabindra Mukhopadhyay, JK Tyre & Industries, Ltd., India
10:15 a.m. E27 Effect of Filler Type on Abrasion Resistance in Natural Rubber Compounds - Edward Terrill, Akron Rubber Development Laboratory, Inc
10:45 a.m. E28 Review of Dynamic Mechanical Techniques for Compound Performance Prediction - Edward Terrill, Akron Rubber Development Laboratory, Inc

Industrial Rubber Goods: Hose, Belts, Wire & Cable, Auto Parts

Co-Chairs: Alton McConnell, Avon Automotive & Christine Domer, Smithers RAPRA
9:00 a.m.  C27 EPDM Product, Formulation and Process for Making Automotive Sponge Weatherstrip - Greg (Guangming) Li, Dow Chemical Co.
9:30 a.m.  Break
9:45 a.m.  C28 X-ray Technology for Continuous Online Quality Control and Material Saving During Extrusion of Rubber Hoses - Susan Lynch, Sikora International Corp.
10:15 a.m. C29 NDM Non Dispersible Matter – a New and Valuable Test for the MRG Industry - Stephan Mueller, Orion Engineered Carbons GmbH
10:45 a.m. C30 Effect of Rubber Viscoelasticity on Seal Dynamic Performance in Rotating Applications - Mickael Sansaloune, SKF, Nicaragua
11:15 a.m. C31 Carbon Fiber Cord to Reinforce Rubber Timing Belts – Stress Analysis of Tension with Bending - Christopher Stevens, NFG Europe Limited, United Kingdom; Ryuichi Tashiro, Nippon Sheet Glass Co. Japan
11:45 a.m. Break
1:00 p.m.  C32 Thermal Carbon Black (N-990) for Processing Performance in Architectural Sealing - Rick Ziebell, R.D. Abbott Company, Inc.
1:30 p.m.  C33 Viscoelastic Modelling of Extrusion Damage in Elastomer Seals - Richard Windslow, Queen Mary University of London, United Kingdom
2:00 p.m.  C34 Carbon Black Reinforcement of Rubber for Antivibration Applications - Lewis Tunnicliffe, Birla Carbon
Thursday (continued)

October 12

11:15 a.m. E29 Influence of Dynamic Modulus in the Rubbery State on tan(\delta) Peak Height with Relevance to Tire Tread Performance Balance - Nuthathai Warasitthinon, Cooper Tire & Rubber Company

Thermoplastic Elastomers

Co-Chairs: Lena Nguyen, Dow Performance Plastics & Juan Salinas, IISRP
1:00 p.m. E30 Preparation and Characterization of Electrically Conductive Thermoplastic Vulcanizate (TPV) Based on NBR, PP and Doped Polyaniline - KC Yong, Malaysian Rubber Board, Malaysia
1:30 p.m. E31 Thermo-reversible Elastomers by a Free-solvent and Facile Diels-Alder Reaction: Toward Rubber Recycling - Nanying Ning, Beijing University of Chemical Technology, China
2:00 p.m. E32 Prospects for TPEs in a Shifting Market Place - Robert Eller, Robert Eller Associates LLC

1:30 p.m. S7 Enhancing the Reinforcing Effect of Philippine Kaolin Clay via Simple Treatment Process - Mitch Irene Kate Galvan, University of the Philippines Diliman, Republic of the Philippines
2:00 p.m. S8 Influence of Terpene Based Derivatives in Promoting Rubber-silica Interaction - Partheban Manoharan, Indian Institute of Technology Kharagpur, India
2:30 p.m. Break
2:45 p.m. S9 Investigation of a Multi-component Injection Molding Process and its Influence on the Adhesion Between PA and EPDM - Sebastian Teich, Deutsches Institut Fur Kautschuktechnologie, Germany
3:15 p.m. S10 Investigation of Crack Propagation Behavior in Notched Planar Elastomer Sheets - Anne-gret Schulze, Leibniz Institute of Polymer Research, Germany
3:45 p.m. S11 Investigation of the Silane-polymer Reaction - Masaki Sato, University of Twente, The Netherlands, Nicaragua

Student Colloquium

October 11 & 12

14th Annual Student Colloquium - Session D
Chair: Joel R. Karczewski, Hexpol Compounding

Wednesday, October 11
Room 26B, Ballroom Level

8:00 a.m. Student Keynote Address: Rubber City Girl - The Path to the Goodyear Medal - Judit E. Puskas, The University of Akron
9:00 a.m. S1 A New Understanding of Thermally Stimulated Shape Memory Behaviour of Alpha Olefins and EPDM Rubber - Tuhin Chatterjee, Indian Institute of Technology Kharagpur, India
9:30 a.m. S2 Bio-based Composites for Food Packaging - Xiaoying Zhao, The Ohio State University
10:00 a.m. Break
10:15 a.m. S3 Chemical and Mechanical Analysis of Hydrogenated Nitrile Butadiene Rubber (HNBR) After Thermal Treatments Under Various Atmospheres - Nina Verdier, University of Montreal, Canada
10:45 a.m. S4 Comparing Colloid, Polymer and Rubber Properties of Natural Rubber Latex Collected From Amazonian Ancient Trees and From Plantation Clones - João Bosco Peres, University of Brasilia, Brazil
11:15 a.m. S5 Degradation Pathway of Butadiene Based Model Elastomers by Molecular Simulation - Tuhin Saha, Indian Institute of Technology Kharagpur, India
11:45 a.m. Lunch Break
1:00 p.m. S6 Development and Understanding of Smart Thermoplastic Elastomer: Bridging Between Simulation and Experiments - Subhabrata Saha, Indian Institute of Technology Kharagpur, India

7:00 a.m. S22 Influence of Terpene Based Derivatives in Promoting Rubber-silica Interaction - Partheban Manoharan, Indian Institute of Technology Kharagpur, India
8:30 a.m. S23 Prediction of in-Rubber Dispersibility of Silica by Analytical Methods - Fabian Grunert, University of Twente, The Netherlands, Nicaragua
9:00 a.m. S24 Reinforcement and Energy Conservation Were Attained with Egg Shells and Silica in Guayule Rubber Composites - Xianjie (Tony) Ren, The Ohio State University
10:00 a.m. Break
10:15 a.m. S25 Prediction of in-Rubber Dispersibility of Silica by Analytical Methods - Fabian Grunert, University of Twente, The Netherlands, Nicaragua
10:45 a.m. S26 Reinforcement and Energy Conservation Were Attained with Egg Shells and Silica in Guayule Rubber Composites - Xianjie (Tony) Ren, The Ohio State University
11:15 a.m. S27 Prediction of in-Rubber Dispersibility of Silica by Analytical Methods - Fabian Grunert, University of Twente, The Netherlands, Nicaragua
11:45 a.m. Lunch Break

Thursday, October 12
Room 26B, Ballroom Level

8:00 a.m. S12 Leakage of HNBR Seals at Low Temperatures - Anton Akulichev, Norwegian University of Science and Technology (NTNU), Norway
8:30 a.m. S13 Modified Silica with Starch by Gel Adsorption Method as Reinforcing Agent for Styrene-Butadiene Rubber Latex - Xiangxu Li, Korea University Of Tech & Edu, Republic of Korea
9:00 a.m. S14 Natural Rubber Latex Cleaning for Using the Purified Elastomer in HIPS Production - Júlia Kramer, University of Brasilia, Brazil
9:30 a.m. S15 Oil Extraction Residue (OER) From End-of-Life Tire (ELT) Recycling as Carbon Black Substitute in Rubber Products - Maria Janice Manuzon, University of the Philippines - Diliman, Republic of the Philippines
10:00 a.m. Break
10:15 a.m. S16 Prediction of in-Rubber Dispersibility of Silica by Analytical Methods - Fabian Grunert, University of Twente, The Netherlands, Nicaragua
10:45 a.m. S17 Reinforcement and Energy Conservation Were Attained with Egg Shells and Silica in Guayule Rubber Composites - Xianjie (Tony) Ren, The Ohio State University
11:15 a.m. S18 Shear Thickening for Impact Resistance - Jeff Dickerson, Ferris State University
11:45 a.m. Lunch Break
1:00 p.m.  S19  Study and Characterization of Reclaim Rubber Incorporated with Egg Shell Powder – **Mohamad Khubab Kazi**, Shroff S. R. Rotary Institute of Chemical Technology, India

1:30 p.m.  S20  Treatment of Oil Extraction Residue (OER) Derived From the Pyrolysis of Waste Rubber Tires to Approach Reinforcing Effect of Carbon Black in Rubber Compounds - **Miguel Lorenzo Yorro**, University of the Philippines-Diliman, Republic of the Philippines

2:00 p.m.  S21  The Use of Rheology in Rubber Compound Development - **Luke Webel**, Hexpol Compounding

2:30 p.m.  Break

2:45 p.m.  S22  Effect of Nanoclay Content on Morphological and Mechanical Properties of Natural Rubber/Nanoclay Foams - **Masoud Razavi Aghjeh**, University of Akron

3:15 p.m.  S23  Fabrication of Elastomeric Omniphobic Surface - **Nischay Kodihalli-Shivaprakash**, The University of Massachusetts Lowell

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**Student Poster Session**

**Wednesday, October 11 - 10:00 a.m. - 5:00 p.m.**

**Hall C, Exhibit Level**

**P1** Study of Mixed Flame Retardant/TPU Composite with Excellent Mechanical Properties and Flame Resistance - **Jieun Lee**, Pusan National University, Republic of Korea

**P2** Absorption and Fusion Behaviors of Pseudo-Elastomeric PVC Blends Using Nontoxic Ultra-Small- Branched Star Poly(e-caprolactone)ls - **Woohyuk Choi**, Seoul National University, Republic of Korea

**P3** Comparative Rheological and Simulated Aging Study of Technically Specified Rubber (TSR) 20 from the Philippines - **Audric Zuriel Cruz**, Rubber Project 3, UPD-DMMME, Republic of the Philippines

**P4** Effect of BR Blending Methods on the Properties of the SBR/BR/Silica Wet Masterbatches - **Woong Kim**, Pusan National University, Republic of Korea

**P5** Effect of Precured EPDM on the Property of NR/EPDM Blend Based Magneto-rheological Elastomer - **Bokgyun Na**, The University of Suwon, Dept. of Polymer Engineering, Republic of Korea

**P6** Effect of Various Filler Systems on Viscosity vs Shear Rate Measurements by RPA and Capillary Rheology - **Jasmine Arterburn**, Cooper Standard

**P7** Elastomeric and Leathery Characteristics of Hyperbranched-Polyglycerol-Functionalyzed Polyvinyl chloride) - **Kyu Won Lee**, Seoul National University, Republic of Korea

**P8** Enhanced Adhesion Strength of Vulcanized Styrene-butadiene Rubber Using Different Adhesives via Plasma Treatment - **Miguel Lorenzo Yorro**, University of the Philippines-Diliman, Republic of the Philippines

**P9** Influence of Carbon from Scrapped Rubber and Silica from Geothermal Brine Fillers on the Properties of Rubber Compounds - **Joshua Kae Macugay**, University of the Philippines - Diliman, Republic of the Philippines

**P10** Influence of Silane Coupling and Covering Agents on the Vulcanizate Structure and Physical Properties of Silica-filled Styrene Butadiene Rubber Composites - **Byungkyu Ahn**, Pusan National University, Republic of Korea

**P11** The Additives Design to Reduce the Hot Press Molding Time for Butyl Rubber Compound - **Min-Jeong Sim**, Korea Institute of Footwear & Leather Technology

**P12** Organomodification of Montmorillonite-Kaolinite Clay with Sodium Salt of Soybean Oil - **Steven Joseph Peabody**, University of the Philippines - Diliman, Republic of the Philippines

**P13** Performance of Philippine Kaolinite Clay and Carbon from Scrapped Rubber as Co-fillers in Rubber Compounds - **Sharyjel Cayabyab**, University of the Philippines - Diliman, Republic of the Philippines

**P14** Preparation and Characterization of a Printable Rubber Ink for Stretchable Electrodes - **Wonseok Wang**, Chonbuk National University, Republic of Korea

**P15** Soy-based Thermoset Composites - **Abdala Bashir**, University of Akron

**P16** A Proof of Concept Study for the Migration of Bacteria Through Latex Condoms in the Presence of Personal Lubricants - **Abenezer Zewdie**, FDA/CDRH/OSEL/Div. of Biology, Chemistry, and Materials Science

**P17** Study on the Effect of Fatty Acid Ester on the Ozone Resistance of Chloroprene Rubber - **Tae Young Yoon**, Korea Institute of Footwear & Leather Technology, Republic of Korea

**P18** Effect of Co-agent on Cure, Mechanical Properties and Oil Resistance of NBR Compounds in Peroxide System - **Ji-Hun Cha**, Kyungpook National University, Republic of Korea

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**Chemistry and Technology of Polymeric Materials Used in Medical Devices**

**Tuesday, October 10, 2017 • 1:00 p.m. - 5:00 p.m.**

Room 5, Concourse Level

The course begins with an overview of the FDA systems, terminology and guidance documents for: classifications of devices, for obtaining FDA approvals, and for pre-clinical testing including biocompatibility and bio-durability testing. Included by example in the foregoing and throughout the course are a broad range of medical devices which are manufactured wholly or substantially from elastomeric and plastic polymeric materials. These include medical latex items such as: gloves, catheters, condoms; urethane, silicone, polyamide, and polyolefin catheters; thermoplastic elastomeric blood tubing; syringes and associated accessories; UHMW and polyurethane orthopedic implants; plastic bottles, packaging and closures; and others.

Key properties, chemical characteristics, and testing and analytical methods related to requisite performance characteristics of materials used in a range of products are discussed. Finally, the course reviews methods of material modification through chemical backbone modifications, surface treatments, incorporation of nano materials to achieve properties such as: anti-microbial properties, electrical conductivity, improved blood compatibility, and/or improved bio durability.

**Instructor:** Cheryl Stults, C & M Technical Consulting, LLC - CEUs: 0.4

**Material Considerations for Medical Devices and Pharmaceutical Products**

**Tuesday, October 10, 2017 • 8:00 a.m. - 12:00 p.m.**

Room 4, Concourse Level

This course is designed for engineers, chemists, material designers and supply chain specialists that are interested in learning more about materials that are used in pharmaceutical applications. There is a variety of regulations and expectations for these materials. After this overview is presented, in-depth training will focus on the selection, qualification and control of materials.

Appropriate material selection is the first step to ensure that materials will be appropriate for their intended use in a medical device or pharmaceutical delivery system. The selection process will be discussed in the context of technical, business, and regulatory needs. Examples of systematic approaches to material selection will be presented to illustrate how stakeholder needs can be translated into material requirements. The next step to ensure that materials are appropriate for their intended use involves a variety of activities to ensure the materials meet the requirements (qualification). The focus of the discussion in this workshop will be on safety qualification, which involves evaluation of biological endpoints, physicochemical characterization and toxicological assessment. Depending on the pharmaceutical application different qualification strategies may be adopted. The participants will be introduced to various types of testing (e.g., ISO 10993, USP) and guided through the process of developing an appropriate testing strategy. The use of risk analysis and other tools will be demonstrated. Relevant examples will be given to illustrate interpretation of test results combined with other relevant information to determine qualification status. After a material is qualified it is essential that appropriate controls are established throughout the supply chain. Examples of the development and implementation of control strategies will be presented and discussed. Approaches to managing material changes during the product lifecycle will also be addressed.

**Learning objectives for this workshop include:**

- Developing an understanding of regulatory and industry expectations for materials used in pharmaceutical applications
- Learning how to use various tools to effectively select and test materials
- Becoming familiar approaches to meet regulatory and industry expectations throughout the product lifecycle.

**Instructor:** Joe Walker, Elastomer Technologies - CEUs: 0.4

**Essentials of Rubber Technology**

**Tuesday, October 10, 2017 • 8:00 a.m. - 12:00 p.m.**

Room 4, Concourse Level

The training is designed for those individuals who are seeking an increased degree of knowledge related to the science behind the design and creation of rubber parts. The course is designed to give practical assistance in answering day-to-day questions related to shop floor issues and customer questions. By applying the principles outlined in this training, the participant should expect to be able to improve the quality of their rubber fabrications.

**Course content includes:**

- What is rubber
- Why do engineers use it
- Differences between rubber and plastic
- Types of rubber; how are they different
- How to select the type of rubber for the application
- How rubber compounds are formulated basic overview of constituents
- How rubber compounds are mixed; overview of mixers and mixing methods
- Rubber curing and its relationship to properties
- How to test rubber
- Rubber bonding
- Rubber molding
- Improving rubber part quality

**Instructor:** Cheryl Stults, C & M Technical Consulting, LLC - CEUs: 0.4

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Room 5, Concourse Level

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Key properties, chemical characteristics, and testing and analytical methods related to requisite performance characteristics of materials used in a range of products are discussed. Finally, the course reviews methods of material modification through chemical backbone modifications, surface treatments, incorporation of nano materials to achieve properties such as: anti-microbial properties, electrical conductivity, improved blood compatibility, and/or improved bio durability.
Meet The Staff Of Rubber Division, ACS

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Visit rubber.org for more information about Rubber Division, ACS and what a valuable resource we can be to you.
Those who should attend include:
This is designed as an introductory course for Materials, Quality and Engineering person-
nel who have limited knowledge of rubber and plastic materials used in medical devices.
The course may also be useful to management or sales professionals new to the medical
device field. There are no suggested technical pre-requisites for this course, one should
need only have a general knowledge of rubber and plastic terminology to derive a signif-
icient benefit.
Instructor: Dave Russell, PU Prospect - CEUs: 0.4

Silicone Rubber Chemistry and Technology

Tuesday, October 10, 2017 • 1:00 p.m. - 5:00 p.m.
Room 4, Concourse Level

The focus of this training session is to provide the attendee an increased level of in-
sight into the silicone rubber family of polymers. The course will take the participant
through the process of making silicone polymers, selecting the polymer architecture,
cure systems, formulating and fabrication.

Course content includes:
• How silicones are made
• What makes silicone a specialty polymer, when to use it over other polymers
• The influence of polymerization on suitability of manufacturing process
• Essential differences between high consistency (millable), RTV and liquid silicone rubber
• Influence of filler types
• Cure systems
• Mixing/manufacturing compounds
• Fabrication technologies; how to set up the process
• Adhesion
• Troubleshooting guide

Instructor: Joe Walker, Elastomer Technologies - CEUs: 0.4

Compound Mixing and Consistency

Wednesday, October 11, 2017 • 8:00 a.m. - 12:00 p.m.
Room 4, Concourse Level

This course is designed to provide the attendee an in-depth understanding of the
impact of the mixing process and the characteristics of the mixed compound.
The focus of the training will be on reducing the batch-to-batch variation commonly
associated with batch mixed rubber compounding. The use the Association of Rubber
Products Manufactures Compound Consistency Guideline will be used to walk each
aspect of rubber compound manufacture.

Continued on page 55

Compound Mixing and Consistency (Continued)

Course content includes:
• Raw material specifications
• Storage of raw materials
• Error proofing
• Weigh-up controls
• Batch sizing
• Integrated power mixing
• In-process mixer data and analysis
• Two-roll mill controls
• Compound properties vs. the mix fingerprint
• Testing the compound

Instructor: Joe Walker, Elastomer Technologies - CEUs: 0.4

Chemistry & Technology of Polyurethane Elastomers

Wednesday, October 11, 2017 • 8:30 a.m. - 4:30 p.m.
Room 5, Concourse Level

The course focuses on the fundamentals of elastomeric polyurethanes such as those
used in coatings, adhesives, sealants or elastomers (“CASE”). The course includes
identification of major raw materials, an introduction to polymer chemistry and chemical
structure-property relationships in elastomeric polyurethanes. Testing and analysis tech-
niques, typical formulary and key processing methods are discussed in the context of
key markets such as medical device, oil field, materials handling, architectural, and materials
handling applications.

Those who should attend:
Product engineers, managers, quality professionals and Jr. or Sr. level chemists. Suggested
pre-requirements include general technical aptitude and general familiarity of technical terminol-
ogy related to chemistry and rubber or plastic materials.

Course Outline:
1. Introduction: CASE market overview
2. Polymer and functional group chemistry of polyurethanes
3. Structure-property relationships and key raw materials
4. Testing and analytical methods

5. Processing Methods
6. Case examples of typical polyurethane formulary

Instructor: Dave Russell, PU Prospect - CEUs: 0.7

Establishing a Rubber Molding Process

Wednesday, October 11, 2017 • 1:00 p.m. - 5:00 p.m.
Room 4, Concourse Level

This program is designed to show how to establish a rubber molding process based on
cross-link density. The course is designed to show the influence of cross-link density on
mechanical properties as well as its influence on de-molding. The overall focus is the
design of a rubber molding process that yields the most consistent properties.

Course content includes:
• Selection of the correct polymer characteristics to match the molding process
• Understanding curing of rubber
• How to measure cure state
• Relationship between cure state and physio-mechanical properties
• Role of mold temperature and it variation reduction
• Heat transfer models in predicting cure time
• Insert molding
• Selecting mold release
• Post mold curing
• Verification of the molding process

Instructor: Joe Walker, Elastomer Technologies - CEUs: 0.4

Failure Analysis of Rubber & Plastics by Physical and Chemical Analysis

Thursday, October 12, 2017 • 8:30 a.m. - 12:30 p.m.
Room 4, Concourse Level

This is a materials testing and analysis course which covers a wide range of
thermoset and thermoplastic elastomeric materials as well as engineering plastic
materials. The course is divided into four sections: Section 1 begins the course
with a brief overview of polymeric materials based on typical properties as relate
to intended end uses. Next in section 1 in order to provide a basis for chemical
analysis, discussions the basic chemical functional group concepts as relate to
the polymer backbone are presented. Sections 2 and 3 give a basic introduction
to physical testing and chemical analysis methods respectively. Physical testing
including: tensile and tear testing, abrasion testing, ozone and other environmental
resistance test, stress crack testing, and a range of predictive testing methods.
Analytical and instrumental methods covered includes: polymer identification
by simple wet chemistry methods as well as more advanced methods such as
FT-IR, NMR, state of cure analysis, microscopic and X-ray analysis methods,
and chromatographic methods for identification of additive. Finally, section four
presents a series of case studies related to a broad range of actual failure analyses
including tires, cast polyurethane parts, medical devices, automotive parts, hoses
and tubing, sporting goods, and the like.

Those who should attend:
Materials and quality technicians and Jr. level chemists looking to expand their
knowledge and skill set related to testing and analysis. Product engineers,
managers, quality professionals desiring to expand their knowledge of what tests
or analyses to request and/or desiring better understanding of the significance and
interpretation of laboratory results. Pre-requisites; general technical aptitude and
general familiarity of technical terminology related to rubber and plastic materials.

Instructor: Dave Russell, PU Prospect - CEUs: 0.4

Chemical Structures and Viscoelasticity of Rubber

Thursday, October 12, 2017 • 8:30 a.m. - 12:30 p.m.
Room 5, Concourse Level

This course is designed to focus on the chemistry of rubber and the other compound
ingredients and their effects on viscoelasticity rather than the mathematical models
and laboratory methods of measuring rubber viscoelasticity. The viscoelastic
models, theories and definitions are covered but the main focus is on the rubber
compounding side. The viscoelastic properties of non-tire mechanical goods and
tires are discussed versus their performance properties. Visit rubberiec.org for a
full outline of this course.

Instructor: Bonnie Stuck, ARDL - CEUs: 0.4

Interested in attending a course, but haven't registered?
Stop by registration to see if there is still seating available.
## Agenda

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Badge & Wristband Policy
Each technical meeting attendee will be provided a color coded wristband to access the technical presentations. Replacement wristbands will not be issued and must be repurchased at full price.

- Badge Reprint Policy - Attendees are advised to keep their badge in a safe place during the conference.
- 1st Badge Reprint: Upon proper identification and confirmation of registration payment, a duplicate badge is issued.
- 2nd Badge Reprint: All additional reprints will be at full cost of the registrants registration fee. No exceptions.

*This only applies to expo only registrations. Technical Meeting registrants must pay full price for ANY badge reprints.

Literature & Product Distribution
Promotions, posters, signs and literature distribution by attendees, exhibitors or other groups during the meeting/expo must be done within their own contracted meeting space or exhibit booth and not in public meeting space or areas – at the convention center or in the hotels, with the exception of designated marketing opportunities secured previously with Rubber Division, ACS. Items left in violation of this policy will be removed and discarded.

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Video recording, live video streaming or photographing any portion of the expo, technical presentations, educational courses or any other component of our conference is strictly prohibited. Violators of this policy will be asked to leave and will not be allowed back into the conference. Press, if credentialed by the Division, may take overall or general views of the exhibits without restriction. Exhibitors are permitted to take pictures only of their own booth before or after official show hours only.

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- Attendees should be aware of their surroundings at all times.
- Don’t wear your meeting badge outside the convention center or hotels.
- Don’t wear fancy jewelry or carry expensive technology in plain sight.
- Carry your briefcase, tote bag, purse or laptop carrier close to your body.
- Don’t leave valuables in your hotel room. Use a hotel save deposit box.
- Walk in open well-lit areas at night.
- Travel in groups. Don’t be a loner, particularly in the evening.
- Use common sense. If someone or someplace looks suspicious, report it and/or avoid it.
- If an emergency occurs during a meeting event, report emergencies to the nearest security guard or to any Rubber Division, ACS staff member.
- If an emergency occurs outside a Rubber Division, ACS event, contact police or emergency assistance by dialing 911 or seeking assistance from the facility where the emergency occurs.
- Should a catastrophic event occur while the meeting is under way, follow safety and security instructions issued by the facility where you are located at the time of the event.
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